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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/944,103	09/04/2001	Tsuguo Fukawa	21994/0028 1748		
7590 08/02/2004			EXAMINER		
Connolly Bove Lodge & Hutz LLP			CHEN, TIANJIE		
Suite 800 1990 M Street, l	NW		ART UNIT	PAPER NUMBER	
Washington, D			2652		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applicat	tion No.	Applicant(s)	
•	09/944,	103	FUKAWA ET AL.	
Office Action Summary	Examine	er .	Art Unit	
	Tianjie (Chen	2652	
The MAILING DATE of this comm	nunication appears on t	he cover sheet with the d	correspondence address	
• •	D EOD DEDI V IS SET	TO EVOIDE 2 MONTH	(S) EDOM	
A SHORTENED STATUTORY PERIOR THE MAILING DATE OF THIS COMM - Extensions of time may be available under the provisafter SIX (6) MONTHS from the mailing date of this of the period for reply specified above is less than thith of the period for reply within the set or extended period for Any reply received by the Office later than three more earned patent term adjustment. See 37 CFR 1.704(UNICATION. sions of 37 CFR 1.136(a). In no ecommunication. rty (30) days, a reply within the stim statutory period will apply and reply will, by statute, cause the apiths after the mailing date of this desired.	event, however, may a reply be ting atutory minimum of thirty (30) day will expire SIX (6) MONTHS from oplication to become ABANDONE	nely filed rs will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).	
Status				
1) Responsive to communication(s)	filed on 13 July 2004.			
2a)⊠ This action is FINAL.	2b) This action is	non-final.		
3)☐ Since this application is in condit	ion for allowance excep	ot for formal matters, pro	osecution as to the merits is	
closed in accordance with the pr	actice under <i>Ex parte</i> C	Quayle, 1935 C.D. 11, 4	53 O.G. 213.	
Disposition of Claims				
4)⊠ Claim(s) <u>11 and 12</u> is/are pendin	g in the application.			
4a) Of the above claim(s)	is/are withdrawn from c	onsideration.		
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>11 and 12</u> is/are rejecte	d.			
7) Claim(s) is/are objected to) .			
8) Claim(s) are subject to re-	striction and/or election	requirement.		
Application Papers				
9) The specification is objected to by	y the Examiner.			
10) The drawing(s) filed on is/s	are: a)⊡ accepted or t	o) objected to by the	Examiner.	
Applicant may not request that any o	objection to the drawing(s)	be held in abeyance. Se	e 37 CFR 1.85(a).	
Replacement drawing sheet(s) inclu	•		• • • • • • • • • • • • • • • • • • • •	
11)☐ The oath or declaration is objecte	ed to by the Examiner. N	Note the attached Office	Action or form PTO-152.	
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a cla a) All b) Some color None of 1. Certified copies of the prio 2. Certified copies of the prio 3. Copies of the certified cop application from the Intern	if: rity documents have be rity documents have be ies of the priority docun ational Bureau (PCT Ri	en received. en received in Applicat nents have been receiv ule 17.2(a)).	ion No ed in this National Stage	
* See the attached detailed Office a Attachment(s)	ction for a list of the cei	tified copies not receive	ed.	
1) Notice of References Cited (PTO-892)		4) Interview Summary		
 Notice of Draftsperson's Patent Drawing Reviews Information Disclosure Statement(s) (PTO-144 Paper No(s)/Mail Date 		Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-152)	

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Final Rejection

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Katagiri et al (US 4,862,305) in view of Komiyama (US 5,121,275).

With regard to claim 11, Katagiri et al shows a tape cassette including: upper half 20a and lower half 20b (Figs. 2 and 4; column 3, lines 60-63) tape cassette components connected each other, a light emitting section 8 for detecting a tape end of a magnetic tape, and a light receiving section 9 for detecting the tape end of the magnetic tape by receiving a detection light beam irradiated by the light emitting section wherein the detection light beam irradiated by the light emitting section reaches the light receiving section in a level of luminous energy exceeding a predetermined luminous energy level, and wherein a hole 31 (Fig. 4) for a light path is formed on the tape cassette composed of the upper and lower halves so as to pass the detection light beam irradiated by the light emitting section to the light receiving section, and further wherein a protrusion 27 is formed on outer side of the upper half above the hole 31 for a light path so as to prevent undesired light other than the

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detection light beam in the predetermined luminous energy level from reaching the light receiving section (Column 4, lines 60-66).

Katagiri et al only show the left half of the cassette and does not show the right half of the cassette; and does not show at least the upper half is made of a material having optical transparency.

Komiyama et al shows a cassette wherein the whole cassette is shows; wherein hole for the light path is formed on both side; and at least the upper half is made of a material having optical transparency (Column 4, lines 44-45).

It would have been obvious at the time the invention was made to one of ordinary skill in the art to set the hole on both sides and make the upper half with a material having optical transparency. The rationale is as follows: Katagiri et al does not show the right half, Komiyama shows the left and right portions of the cassette and set the holes on both sides. It is also a common practice in the art that set the hole on both sides. Komiyama also teaches that by using transparent material the amount of remaining magnetic tape within the cassette can be visually observed (Column 4, lines 44-48). One of ordinary skill in the art would have been motivated to set the hole on both sides and using transparent material to be able to visually observe the amount of the remaining tape.

With regard to claim 12, Katagiri et al does not disclose the roughness of the surface of protrusion 27.

Komiyama further shows that one surface of the prism 117, which faces toward the lower half and is perpendicular to the side of the upper half, is roughened for shielding extraneously incident light (Column 4, lines 60-66).

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It would have been obvious at the time the invention was made to one of ordinary skill in the art to roughen the surfaces of protrusion 27 as taught by Komiyama to further shielding extraneously incident light. It would include the surface, which faces toward the lower half and is perpendicular to the side of the upper half, out of a plurality of surfaces constituting the protrusion.

Response to Arguments

3. Applicant's arguments with respect to claim 11 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tianjie Chen whose telephone number is (703) 305-

7499. The examiner can normally be reached on 8:00-4:30, Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Hoa Nguyen can be reached on (703) 305-9687. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

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Should you have questions on access to the Private PAIR system, contact the

Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TIANJIE CHEN

PRIMARY EXAMINEH